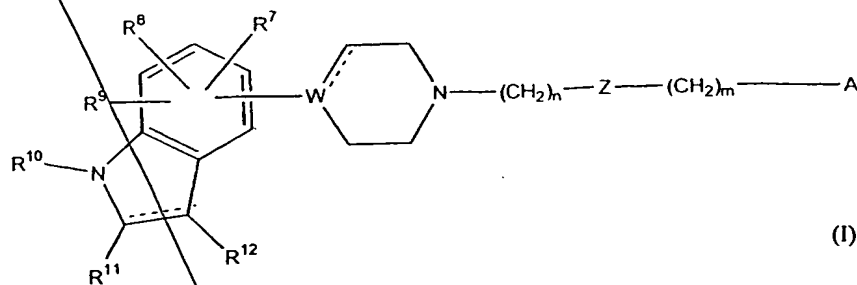


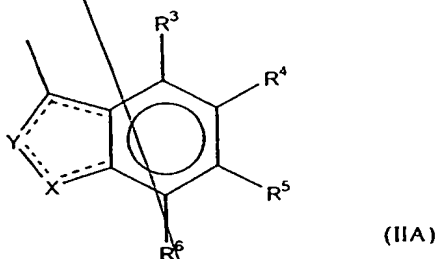
Claims:

1. A substituted 4-, 5-, 6-, or 7-indole or indoline derivative of Formula



wherein W is N, C, CH or COH and the dotted lines indicate optional bonds and

wherein A is a group having the formula



wherein X is CR^{1A}, CHR^{1A}, N, NR^{1B}, O, or S, where R^{1A} is as defined for R³ to R⁹ below, and where R^{1B} is as defined for R¹⁰ below;

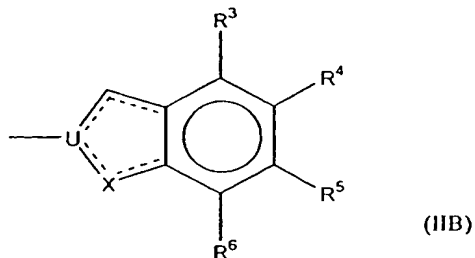
Y is CR^{2A}, CHR^{2A}, N, NR^{2B}, O, or S, where R^{2A} is as defined for R³ to R⁹ below and where R^{2B} is as defined for R¹⁰ below, and

the dotted lines indicate optional bonds;

provided that X and Y are not both O or S;

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A is a group having the formula

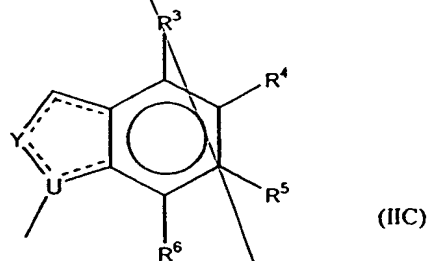


5 wherein X is CR^{1A} , CHR^{1A} , N, NR^{1B} , O, or S, where R^{1A} is as defined for R^3 to R^9 below, and where R^{1B} is as defined for R^{10} below;

U is C, CH, or N; and

10 the dotted lines indicate optional bonds; or

A is a group having the formula



15 wherein U is C, CH, or N;

Y is CR^{2A} , CHR^{2A} , N, NR^{2B} , O, or S, where R^{2A} is as defined for R^3 to R^9 below and where R^{2B} is as defined for R^{10} below; and

20 the dotted lines indicate optional bonds;

n is 0, 1, 2, 3, 4, or 5, and m is 0, 1, 2, 3, 4, or 5;

Z is CH₂, O, S, CO, SO, or SO₂, provided that if n is 0 then Z is CH₂;

- R³-R⁹ and R¹¹ to R¹² are independently selected from hydrogen, halogen, cyano, nitro, C₁₋₆-alk(en/yn)yl, C₁₋₆ alkoxy, C₁₋₆-alkylthio, hydroxy, hydroxy-C₁₋₆-alkyl, C₁₋₆-alkoxycarbonyl, C₃₋₈-cycloalk(en)yl, C₃₋₈-cycloalk(en)yl-C₁₋₆-alk(en/yn)yl, C₁₋₆-alkylcarbonyl, phenylcarbonyl, halogen substituted phenylcarbonyl, trifluoromethyl, trifluoromethylsulfonyloxy, C₁₋₆ alkylsulfonyl, aryl and heteroaryl, and/or two adjacent groups taken from R³ - R⁹ may together form a methylenedioxy group,
- and/or two adjacent groups R⁷ - R⁹ may together form a cyclopentyl or cyclohexyl ring which may be substituted with one or more methyl groups, and/or one of R³-R⁹ may alternatively be a group -NR¹³R¹⁴ wherein R¹³ is as defined for R¹⁰ below and R¹⁴ is hydrogen, C₁₋₆-alk(en/yn)yl, C₃₋₈-cycloalk(en)yl, C₃₋₈-cycloalk(en)yl-C₁₋₆ alk(en/yn)yl, aryl, heteroaryl, aryl-C₁₋₆ alkyl, or heteroaryl-C₁₋₆ alkyl;

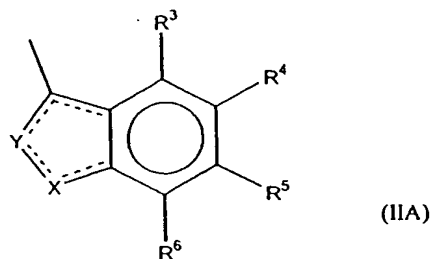
R¹⁰ is

- hydrogen, C₁₋₆-alk(en/yn)yl, C₃₋₈-cycloalk(en)yl, C₃₋₈-cycloalk(en)yl-C₁₋₆-alk(en/yn)yl, aryl, heteroaryl, aryl-C₁₋₆-alkyl, heteroaryl-C₁₋₆-alkyl, acyl, thioacyl, C₁₋₆-alkylsulfonyl, trifluoromethylsulfonyl, arylsulfonyl, or heteroarylsulfonyl;
- R¹⁵VCO- wherein V is O or S and R¹⁵ is C₁₋₆-alk(en/yn)yl, C₃₋₈-cycloalk(en)yl, C₃₋₈-cycloalk(en)yl-C₁₋₆-alk(en/yn)yl, aryl, or heteroaryl; or
- a group R¹⁶R¹⁷NCO- or R¹⁶R¹⁷NCS- wherein R¹⁶ and R¹⁷ are independently selected from hydrogen, C₁₋₆-alk(en/yn)yl, C₃₋₈-cycloalk(en)yl, C₃₋₈-cycloalk(en)yl-C₁₋₆-alk(en/yn)yl, heteroaryl, or aryl, or R¹⁶ and R¹⁷ together with the N-atom to which they are linked, form a pyrrolidinyl, piperidinyl, morpholinyl, or perhydroazepin group;

or an acid addition salt thereof.

2. A compound according to claim 1 wherein A is a group having the formula

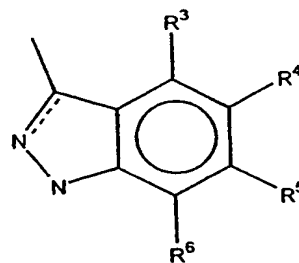
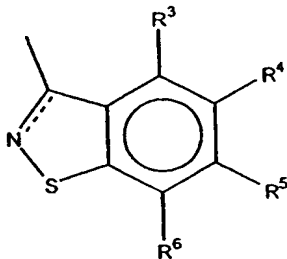
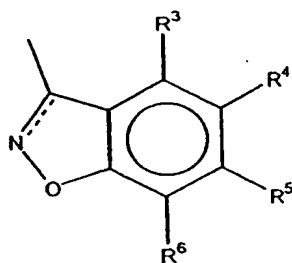
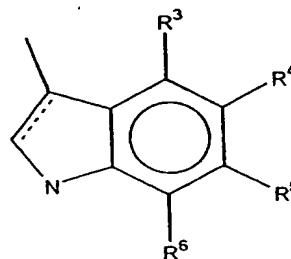
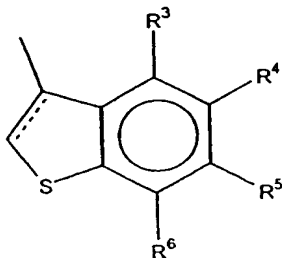
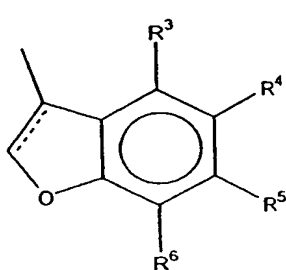
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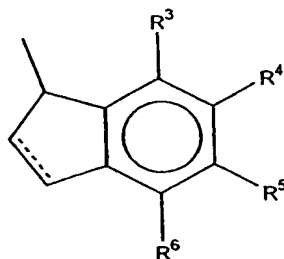
wherein X, Y, the dotted lines and R^3 - R^6 are as defined in claim 1.

5

3. A compound according to claim 2 wherein A is a group having the formula



or

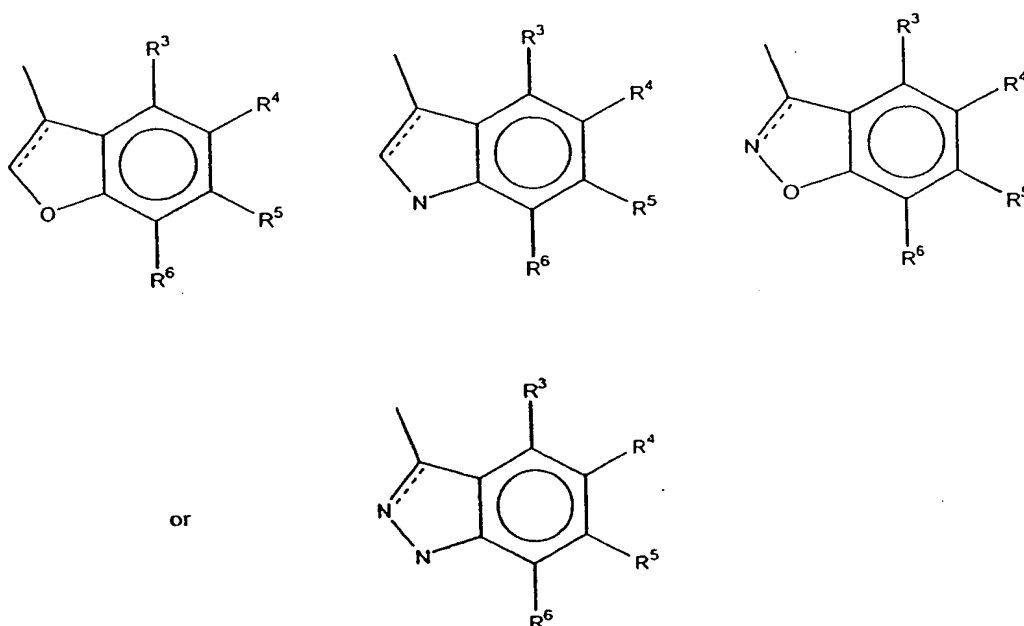


10

wherein R^3 to R^6 and the dotted lines are as defined in claim 2.

51

4. A compound according to claim 3 wherein A is a group having the formula

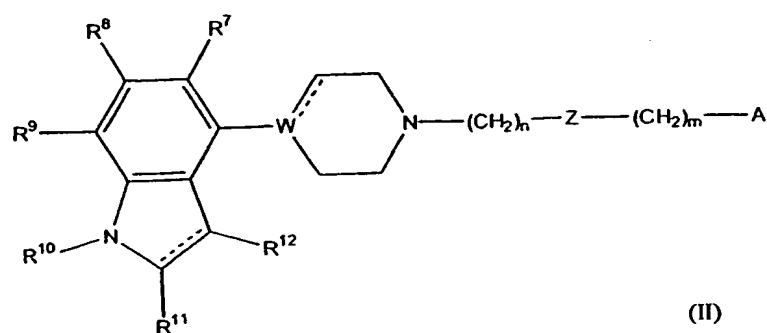


5

wherein R^3 to R^6 and the dotted lines are as defined in claim 3.

5. A compound according to claim 1 having the formula

10



(II)

wherein R^7 to R^{12} , W , A , Z , n , m and the dotted lines are as defined in claim 1.

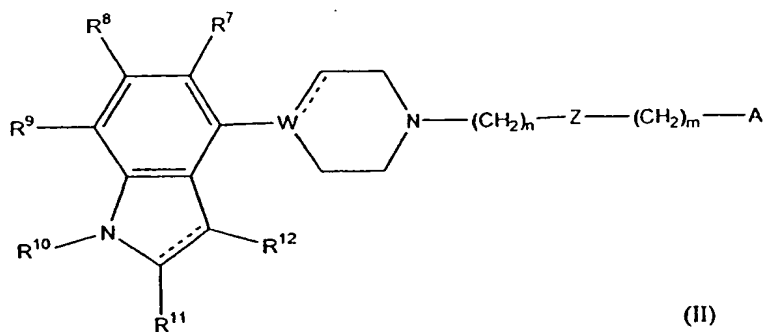
15

6. A compound according to claims 1 to 5 wherein Z is CH_2 and $n + m$ is 0, 1, 2, 3, 4, 5, or 6.

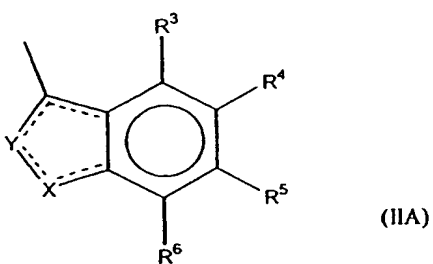
Sub
AS

7. A compound according to claim 1-6 wherein W is N.

8. A compound according to claim 1 having the formula

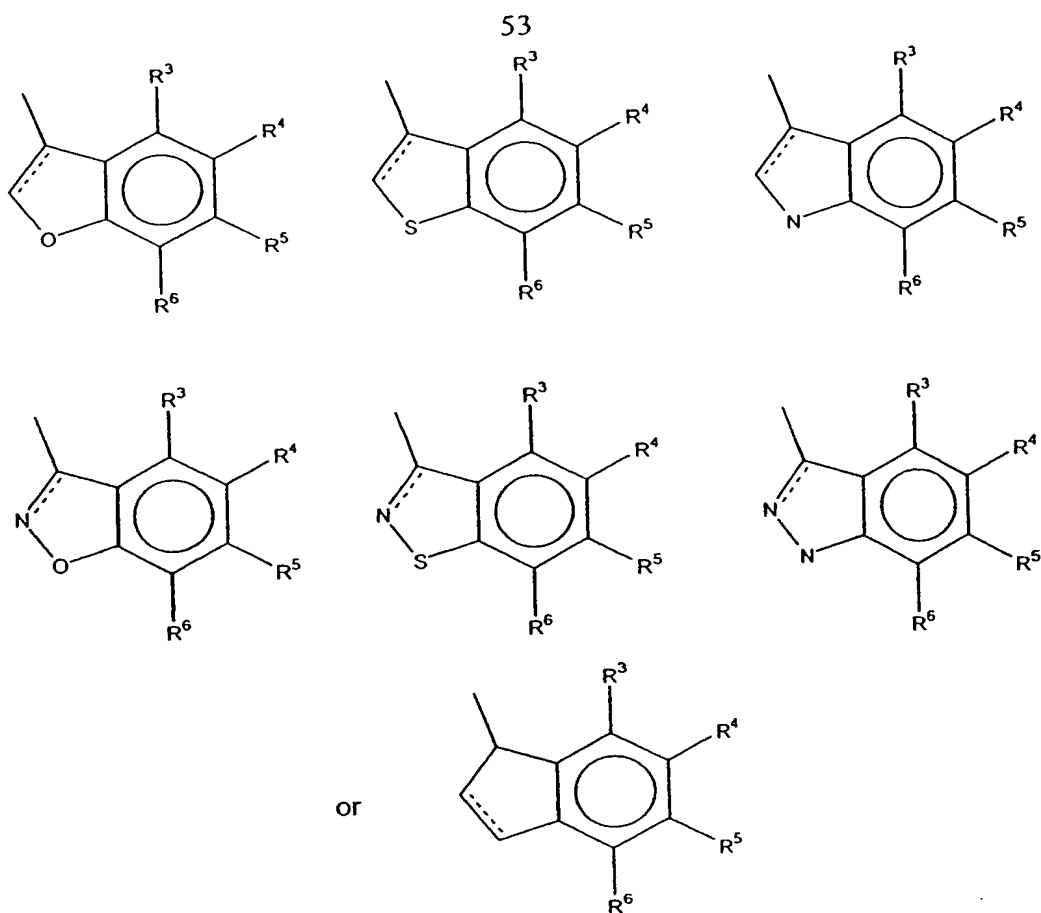


wherein R^7 to R^{12} , W , Z , n , m and the dotted lines are as defined in claim 1 and A is a group having the formula



wherein X , Y , the dotted lines and R^3 - R^6 is as defined in claim 1.

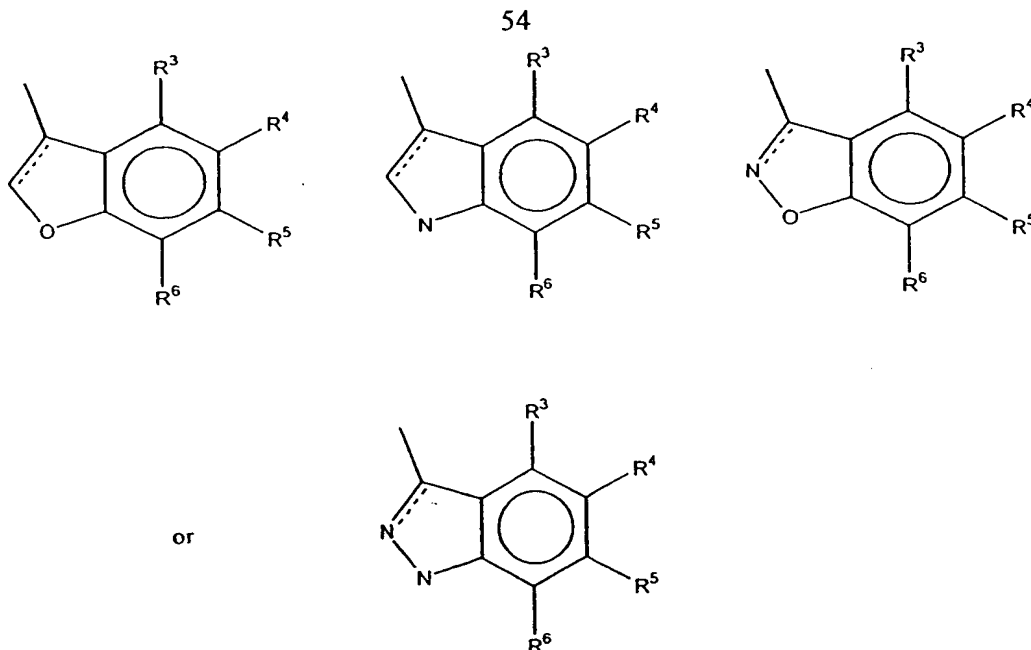
9. A compound according to claim 8 wherein A is a group having the formula



wherein R^3 to R^6 and the dotted line is as defined in claim 8.

5

10. A compound according to claim 9 wherein A is a group having the formula



wherein R^3 to R^6 and the dotted line is as defined in claim 9.

5

11. A compound of claims 1-10 wherein Z is CH_2 and $n + m$ is 0, 1, 2, 3, 4, 5, or 6 and R^3 - R^9 and R^{11} - R^{12} is hydrogen, halogen, cyano, nitro, C_{1-6} -alkyl, C_{1-6} -alkoxy hydroxy, hydroxy- C_{1-6} -alkyl, C_{1-6} -alkoxycarbonyl and trifluoromethyl; and R^{10} is hydrogen.

10

12. A compound according to claim 8 -11 wherein W is N.

13. A compound according to claim 1 which is

1-(2-(3-Benzofuranyl)ethyl)-4-(1H-indol-4-yl)piperazine,

15 1-(3-Benzofuranylmethyl)-4-(1H-indol-4-yl)piperazine,

1-(2-(5-Fluoro-3-benzofuranyl)ethyl)-4-(1H-indol-4-yl)piperazine,

1-(4-(5-Fluoro-3-benzofuranyl)-1-butyl)-4-(1H-indol-4-yl)piperazine,

1-(2-(1H-Indol-3-yl)ethyl)-4-(1H-indol-4-yl)piperazine,

1-(3-(1H-Indol-3-yl)-1-propyl)-4-(1H-indol-4-yl)piperazine,

20 1-(4-(1H-Indol-3-yl)-1-butyl)-4-(1H-indol-4-yl)piperazine,

1-(3-(5-Fluoro-3-benzofuranyl)-1-propyl)-4-(1H-indol-4-yl)piperazine,

- Sub A7
- 1-(2-(2-Methyl-4,5,6,7-tetrafluoro-3-benzofuranyl)ethyl)-4-(1H-indol-4-yl)piperazine,
1-(2-(3-Indazolyl)ethyl)-4-(1H-indol-4-yl)piperazine,
1-(2-(6-Chloro-3-indazolyl)ethyl)-4-(1H-indol-4-yl)piperazine,
1-(2-(7-Cyano-1H-indol-3-yl)ethyl)-4-(1H-indol-4-yl)piperazine,
5 1-(2-(6-Chloro-1H-indol-3-yl)ethyl)-4-(1H-indol-4-yl)piperazine,
1-(2-(4-Chloro-1H-indol-3-yl)ethyl)-4-(1H-indol-4-yl)piperazine,
1-(2-(5-Fluoro-1H-indol-3-yl)ethyl)-4-(1H-indol-4-yl)piperazine,
1-(2-(6-Chloro-1H-indol-3-yl)ethyl)-4-(1H-indol-4-yl)-1,2,3,6-tetrahydropyridine,
1-(2-(5-Fluoro-1H-indol-3-yl)ethyl)-4-(1H-indol-4-yl)-1,2,3,6-tetrahydropyridine,
10 1-(2-(7-Bromo-1H-indol-3-yl)ethyl)-4-(1H-indol-4-yl)piperazine,
1-(1-Allyl-1H-indol-4-yl)-4-(2-(6-chloro-1H-indol-3-yl)ethyl)piperazine,
1-(1-Allyl-1H-indol-4-yl)-4-(2-(5-fluoro-1H-indol-3-yl)ethyl)piperazine,
1-(1-Benzyl-1H-indol-4-yl)-4-(2-(6-chloro-1H-indol-3-yl)ethyl)piperazine,
1-(1-Benzyl-1H-indol-4-yl)-4-(2-(5-fluoro-1H-indol-3-yl)ethyl)piperazine,
15 1-(1-Benzyl-1H-indol-4-yl)-4-(2-(5-bromo-1H-indol-3-yl)ethyl)piperazine,
1-(2-(6-Chloro-1H-indol-3-yl)ethyl)-4-(1-propargyl-1H-indol-4-yl)piperazine,
1-(2-(1H-Indol-3-yl)ethyl)-4-(1-propargyl-1H-indol-4-yl)piperazine,
1-(2-(5-Fluoro-1H-indol-3-yl)ethyl)-4-(1-propargyl-1H-indol-4-yl)piperazine,
1-(2-(5-Bromo-1H-indol-3-yl)ethyl)-4-(1-propargyl-1H-indol-4-yl)piperazine,
20 1-(1-Benzyl-1H-indol-4-yl)-4-(2-(1H-indol-3-yl)ethyl)piperazine,
1-(2-(5-Bromo-1H-indol-3-yl)ethyl)-4-(1H-indol-5-yl)piperazine,
1-(2-(5-Chloro-1H-indol-3-yl)ethyl)-4-(1H-indol-5-yl)piperazine,
1-(2-(5-Fluoro-1H-indol-3-yl)ethyl)-4-(6-hydroxymethyl-1H-indol-4-yl)piperazine,
1-(2-(6-Chloro-1H-indol-3-yl)ethyl)-4-(6-hydroxymethyl-1H-indol-4-yl)piperazine,
25 1-(2-(5-Bromo-1H-indol-3-yl)ethyl)-4-(6-hydroxymethyl-1H-indol-4-yl)piperazine,
1-(3-(6-Fluoro-1,2-benzisoxazol-3-yl)-1-propyl)-4-(1H-indol-4-yl)piperazine,
1-(2-(1H-Indol-3-yl)ethyl)-4-(6-methoxycarbonyl-1H-indol-4-yl)piperazine,
1-(2-(6-Chloro-1H-indol-3-yl)ethyl)-4-(6-methoxycarbonyl-1H-indol-4-yl)piperazine,
1-(2-(5-Fluoro-3-benzofuranyl)ethyl)-4-(6-methoxycarbonyl-1H-indol-4-
30 yl)piperazine,
1-(5-Fluoro-3-benzofuranylmethyl)-4-(1H-indol-4-yl)piperazine,
1-(3-Cyano-1H-indol-4-yl)-4-(2-(1H-indol-3-yl)ethyl)piperazine,

- Sub
A7
- 1-(3-Cyano-1H-indol-4-yl)-4-(2-(5-fluoro-3-benzofuranyl)ethyl)piperazine,
1-(2-(6-Chloro-1H-indol-3-yl)ethyl)-4-(3-cyano-1H-indol-4-yl)piperazine,
1-(2-(3-Benzofuranyl)ethyl)-4-(3-cyano-1H-indol-4-yl)piperazine,
1-(1H-Indol-4-yl)-4-(2-(5-methyl-3-benzofuranyl)ethyl)piperazine,
5 1-(1H-Indol-4-yl)-4-(2-(4-methyl-3-benzofuranyl)ethyl)piperazine,
1-(3-(5-Fluoro-3-benzofuranyl)-1-propyl)-4-(1H-indol-4-yl)-1,2,3,6-
tetrahydropyridine,
1-(2-(5-Chloro-3-benzofuranyl)ethyl)-4-(1H-indol-4-yl)piperazine,
1-(1H-Indol-4-yl)-4-(2-(6-methyl-3-benzofuranyl)ethyl)piperazine,
10 1-(2-(7-Chloro-3-benzofuranyl)ethyl)-4-(1H-indol-4-yl)piperazine,
1-(2-(4-Chloro-1H-indol-3-yl)ethyl)-4-(3-cyano-1H-indol-4-yl)piperazine,
1-(2-(6-Chloro-1H-indol-3-yl)-4-(1H-indol-4-yl)piperidine,
1-(2-(5-Chloro-1H-indol-3-yl)ethyl)-4-(1H-indol-4-yl)piperazine,
1-(2-(7-Bromo-1H-indol-3-yl)ethyl)-4-(1H-indol-4-yl)piperazine,
15 1-(2-(4-Chloro-1H-indol-3-yl)ethyl)-4-(1H-indol-4-yl)piperazine,
1-(2-(6-Trifluoromethyl-1H-indol-3-yl)ethyl)-4-(1H-indol-4-yl)piperazine,
1-(1H-Indol-4-yl)-4-(2-(5-methyl-1H-indol-3-yl)ethyl)piperazine,
1-(1H-Indol-4-yl)-4-(2-(6-methyl-1H-indol-3-yl)ethyl)piperazine,
1-(1H-Indol-4-yl)-4-(2-(7-methyl-1H-indol-3-yl)ethyl)piperazine,
20 1-(2-(4,5-Dichloro-3-benzofuranyl)ethyl)-4-(1H-indol-4-yl)piperazine,
1-(2-(5-Bromo-3-benzofuranyl)ethyl)-4-(1H-indol-4-yl)piperazine,
1-(2-(4-Chloro-1H-indol-3-yl)ethyl)-4-(1H-indol-4-yl)piperidine,
4-(1H-Indol-4-yl)-1-(2-(5-methyl-1H-indol-3-yl)ethyl)piperidine,
4-(1H-Indol-4-yl)-1-(2-(1H-indol-3-yl)ethyl)piperidine,
25 1-(1H-Indol-4-yl)-4-(3-(4-methyl-3-benzofuranyl)-1-propyl)piperazine,
4-(1H-Indol-4-yl)-1-(3-(4-methyl-3-benzofuranyl)-1-propyl)piperidine,
1-(3-(4-Chloro-3-benzofuranyl)-1-propyl)-4-(1H-indol-4-yl)piperazine,
1-(2-(6-Chloro-1H-indol-3-yl)ethyl)-4-(6-chloro-1H-indol-4-yl)piperazine,
1-(2-(6-Chloro-1H-indol-3-yl)ethyl)-4-(6-fluoro-1H-indol-4-yl)piperazine,
30 1-(2-(6-Chloro-1H-indol-3-yl)ethyl)-4-(6-cyano-1H-indol-4-yl)piperazine,
1-(2-(6-Chloro-1H-indol-3-yl)ethyl)-4-(7-chloro-1H-indol-4-yl)piperazine,
1-(2-(6-Chloro-1H-indol-3-yl)ethyl)-4-(7-cyano-1H-indol-4-yl)piperazine,

Sub A7
1-(2-(6-Chloro-1H-indol-3-yl)ethyl)-4-(2-cyano-1H-indol-4-yl)piperazine,
1-(2-(6-Chloro-1H-indol-3-yl)ethyl)-4-(1H-indolin-4-yl)piperazine,
1-(2-(6-Chloro-1H-indol-3-yl)ethyl)-4-(1H-indol-6-yl)piperazine and
1-(2-(6-Chloro-1H-indol-3-yl)ethyl)-4-(1H-indol-7-yl)piperazine or a
5 pharmaceutically acceptable acid addition salt thereof.

14. A pharmaceutical composition comprising a compound according to claims 1 to 13 or a pharmaceutically acceptable acid addition salt thereof and at least one pharmaceutically acceptable carrier or diluent.

10

15. The use of a compound according to claims 1 to 13 or a pharmaceutically acceptable acid addition salt thereof for the preparation of a medicament for the treatment of a disorder or disease responsive to the inhibition of serotonin reuptake and antagonism of 5-HT_{1A} receptors.

15

16. The use of a compound according to claims 1 to 13 or a pharmaceutically acceptable acid addition salt thereof for the preparation of a medicament for the treatment of affective disorders, such as depression, psychosis, anxiety disorders including general anxiety disorder and panic disorder and obsessive compulsive
20 disorder.

17. A method for the treatment of a disorder or disease of living animal body, including a human, which is responsive to the inhibition of serotonin reuptake and antagonism of 5-HT_{1A} receptors comprising administering to such a living animal
25 body, including a human, a therapeutically effective amount of a compound according to claims 1 to 13 or a pharmaceutically acceptable acid addition salt thereof.

18. A method for the treatment of an affective disorder, including depression psychosis, anxiety disorders including general anxiety disorder and panic disorder and
30 obsessive compulsive disorder in a living animal body, including a human, comprising administering a therapeutically effective amount of a compound according to claims 1 to 13 or a pharmaceutically acceptable acid addition salt thereof.

add
A9